The POPULAR HOME CHAIR...yours for the making

COMPLETE

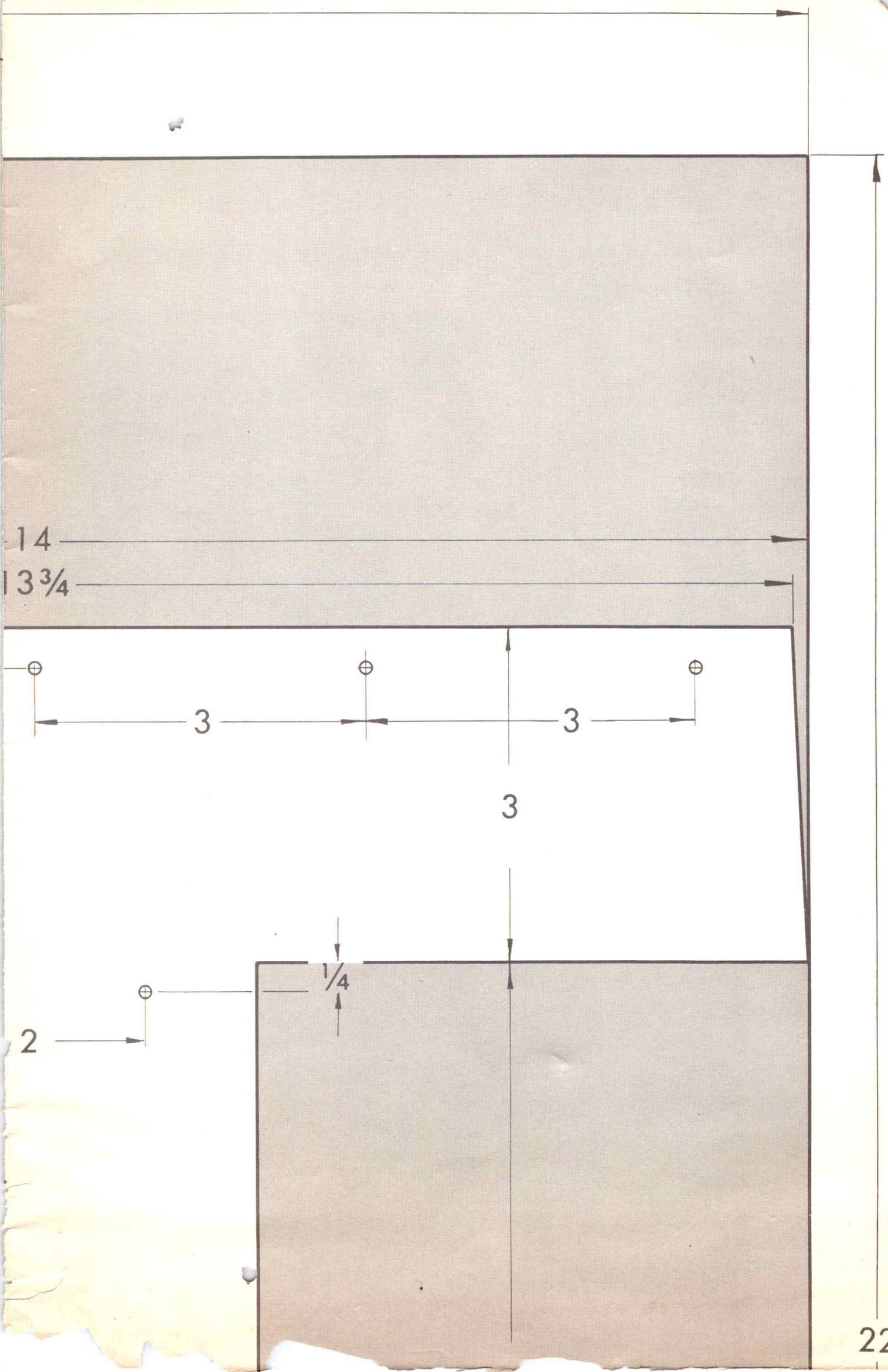
FULL SIZE PATTERN

and instructions for building

- Every home can use at least one
- Comfortable
- Low in cost
- You can make it from plywood with household tools

Budget-built Furniture

ONE OF A SERIES
designed for POPULAR HOME readers by Lerner-Bredendieck - Chicago


14
13 3/4
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3
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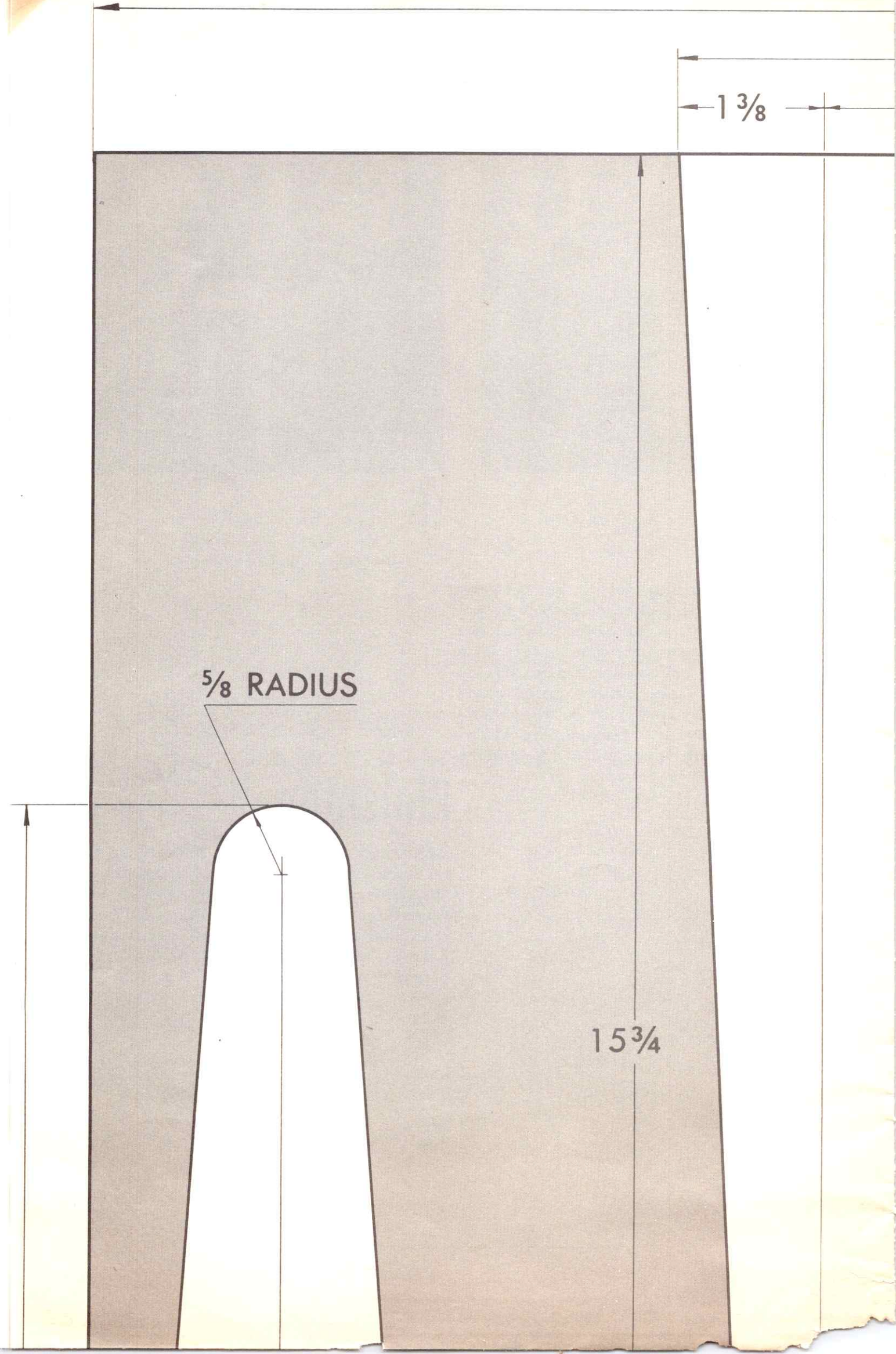
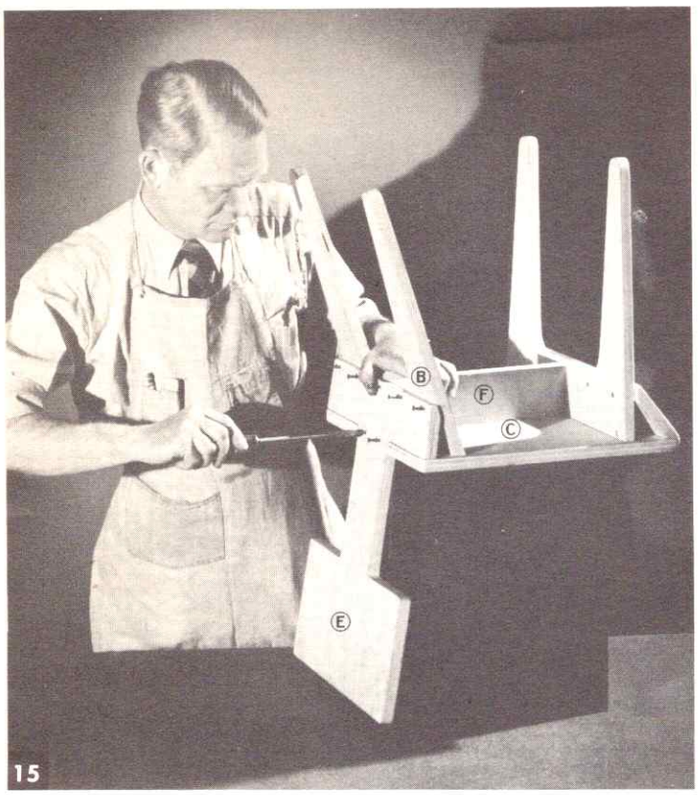
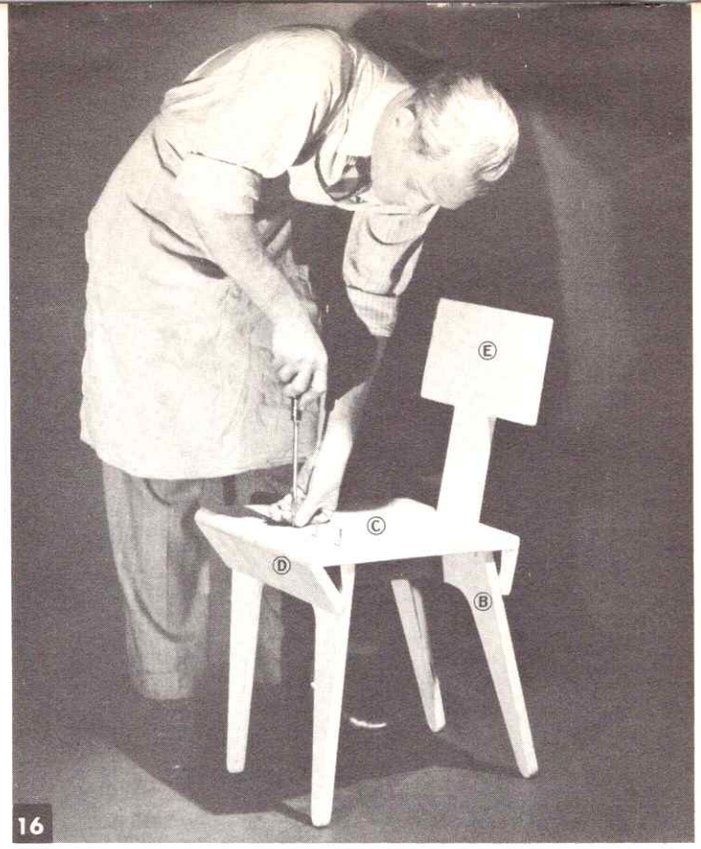
2


1 3/8
5/8 RADIUS
15 3/4



15

15. Screw back, E, to notch in seat, C, and back legs, B.



16

16. Stand chair on legs and screw down seat, C, to legs, to front piece, D, and to back, E.

Glued joints are desirable, but not necessary. Glue should be applied to meeting edges before screwing. Lubricate screws by drawing threads across a piece of soap or candle. Do not tighten screws completely before entire chair is assembled. Then go over all screws and tighten firmly. Sand entire chair, especially feet, and tack metal gliders to bottom of chair legs.

Finishing

This chair is effective with any number of finishes; with or without upholstery. High gloss lacquer in a rich color is interesting. A natural wood finish achieved with shellac and wax is good. Or it may have clear varnish applied, or any type of wood paint can be used. The type of plywood determines to some extent the choice of finish.

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United States Gypsum Co.
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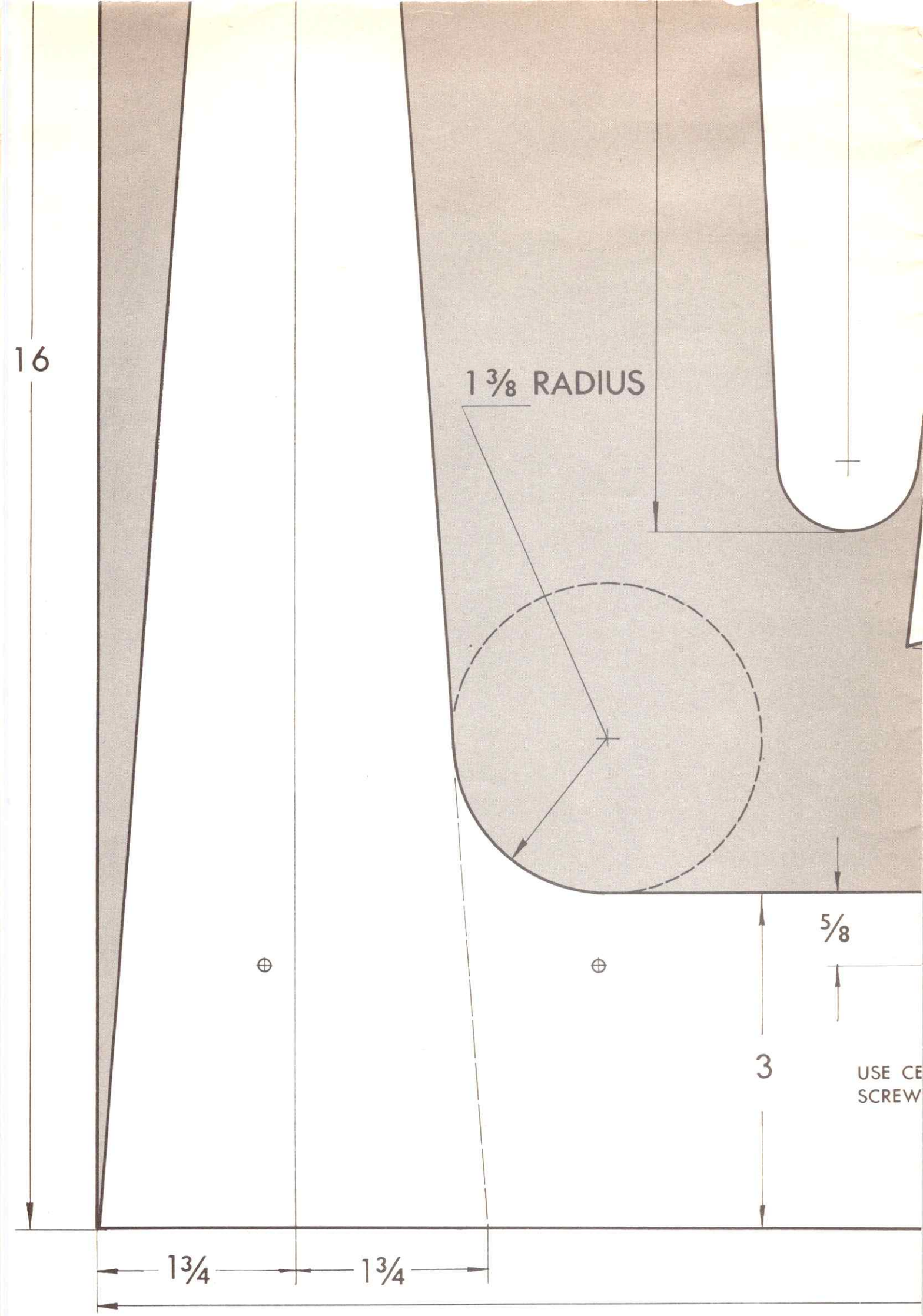
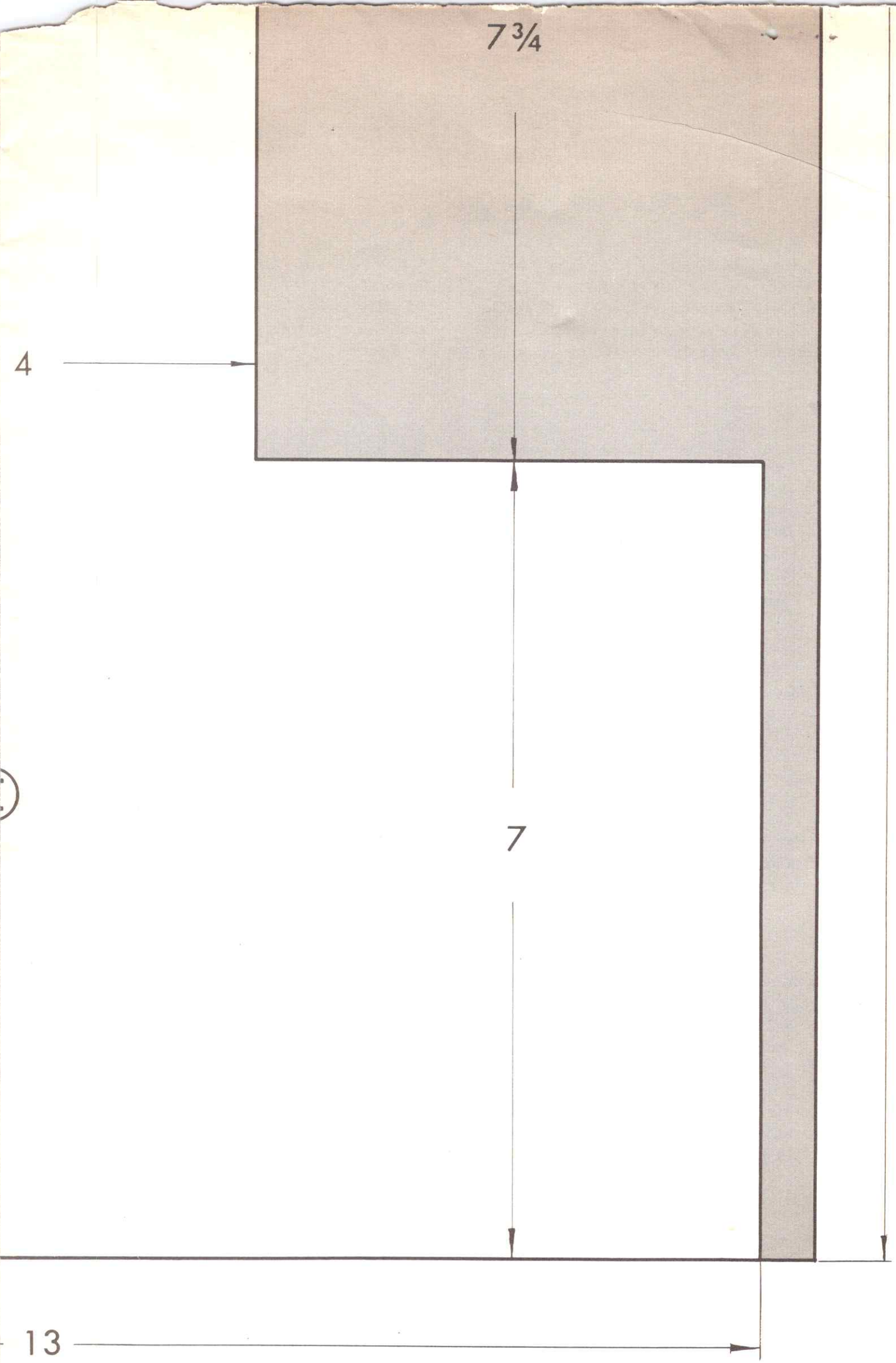


All dimensions on this plan are in inches


7 3/4
4
7
13

Step by step instructions

for upholstering the Popular Home Chair

Rubberized curled hair is shown in these series of pictures as the padding material. It requires a thin layer of cotton covering before upholstering. Foam rubber is even more satisfactory and needs no cotton covering before upholstery fabric is applied, but is slightly more costly. Padding can be made entirely of upholsterer's cotton if desired.

1. Cut and tack down rubberized curled hair, foam rubber or other padding material, to seat of chair. This can be cut from a piece 16 x $18\frac{1}{2}$ inches. It must be notched at the rear to fit around the back rest support, and should cover the rounded front edge of the seat.

2. Cut a piece of curled hair or foam rubber padding 7 x 22 inches. Apply to back rest as shown, folding each end under about $4\frac{1}{2}$ inches and tacking it tight to the back. Tack the very center of the padding to the center of the back rest. This gives a comfortably curved shape. Each end of the piece should be beveled or tapered to make the curve more regular.

3. Cut finished fabric for upholstery. The seat will cut out of a piece 30 x 22 inches, the back from 22 x 22 inches. Pattern shown right is appropriate for 1/2 seat. Further snipping will be necessary as fabric is being applied, to reduce bulk at corners. Material for back is just 22 inch square, so no pattern is needed.

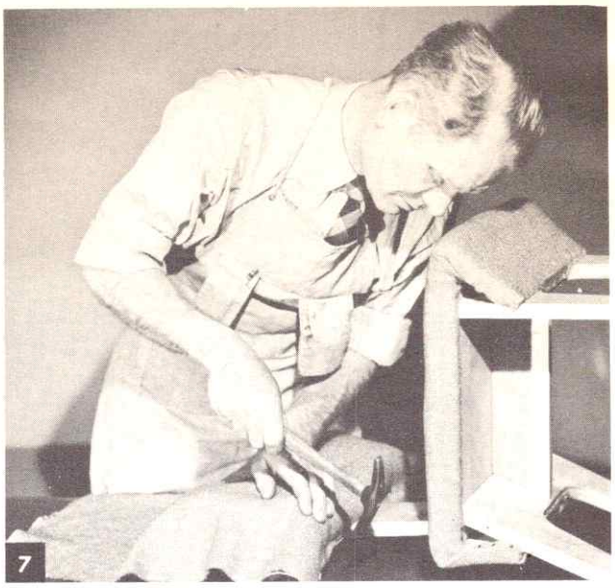
4. Tack a piece of waste material about $5\frac{1}{2}$ x 6 inches to the back of the back (E) of chair, so that it spans the width of the back rest support and is flush with the top edge of the bottom of the chair (C). All edges should be folded edges. Fold the top edge around a narrow strip of cardboard to make a sharp clean fold.

2

5. A thin layer of cotton batting has been spread over the curled hair, and the fabric dropped over this. Begin tacking at the back. The tacking shown is temporary. The final tacking is done on an under ledge (the operator's left thumb points to this) and does not show. All tacks should be only partially driven in at first, so that they may be removed if necessary.

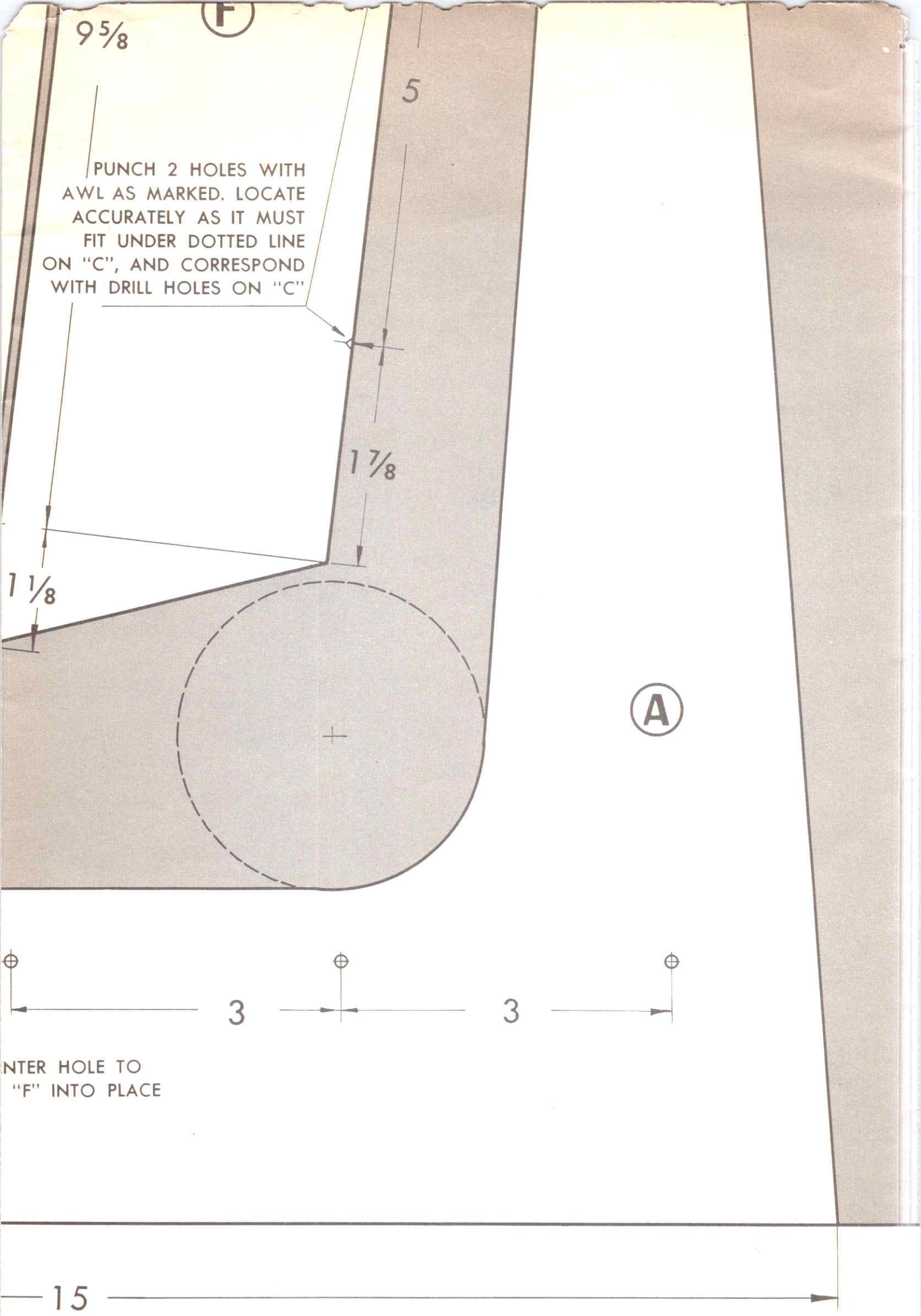
6. After tacking back edge, tack front edge, pulling fabric taut as tacking proceeds. Then tack two sides and work on corners to get clean fold. In the photograph the back corner is completed and the operator is working on a front corner. All tacking is on underneath edges of seat, and on under ledges of pieces D and E, specially provided for the purpose.

7. Start tacking back covering along bottom edge. Note the tacking edges for seat, illustrated here.



8. Bring the fabric up over the back of the chair and turn in sides first, bringing back down over them. At left is finished fold (held with temporary tacks). At right is turned-in side. These tacks will remain, as they will be concealed by the back flap. The loose bottom piece is folded under and finish tacking is on the bottom edge of the back, directly over the first tacking that was done when the back was started.

The matter of upholstering is to some extent a matter of judgment and expediency as the work progresses. There will be a certain amount of clipping to reduce the bulk of fabric at corners, that must be met as encountered. The dimensions given for the fabric pieces are generous.


F
9 5/8
5
PUNCH 2 HOLES WITH AWL AS MARKED. LOCATE ACCURATELY AS IT MUST FIT UNDER DOTTED LINE ON "C", AND CORRESPOND WITH DRILL HOLES ON "C"
1 7/8
1 1/8
A
3
3
NTER HOLE TO
"F" INTO PLACE
15

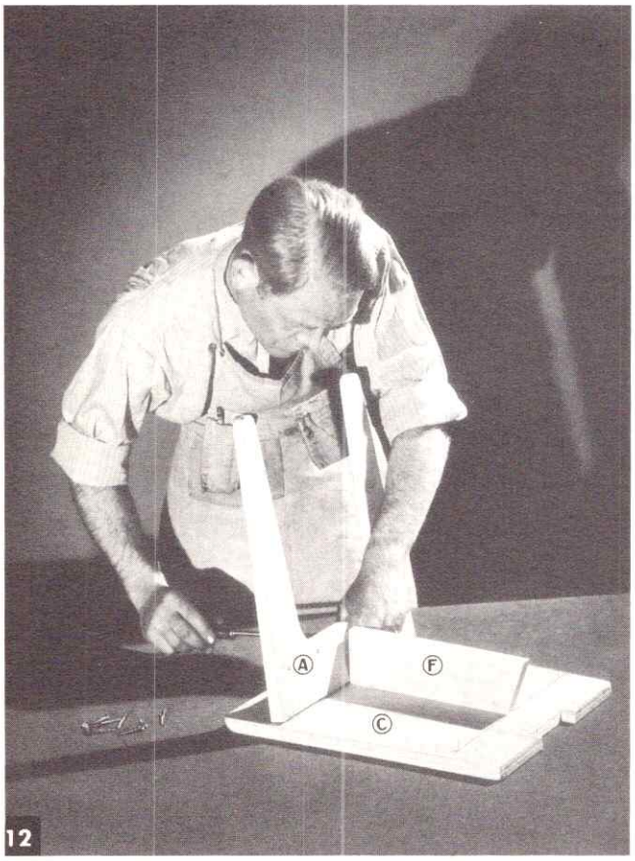
R HALF OF SEAT FABRIC

Assembly

10. Place part C over shorter edge of part F, and screw into place. Position of F is shown in dotted line on pattern of part C.

11. Screw F into position under seat C.

12. Screw A (front legs) to center brace F. (Note brads tacked into C as guide to leg placement.)



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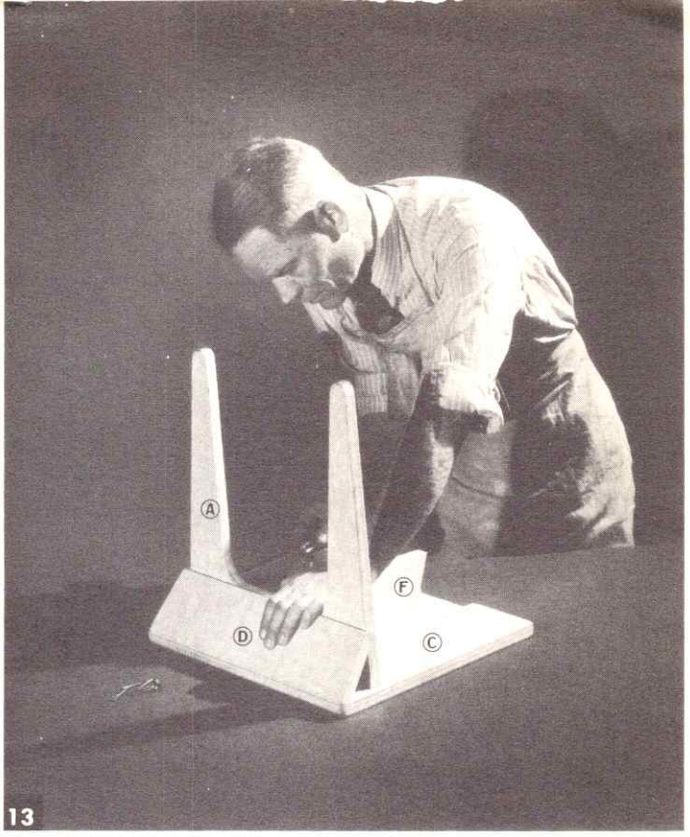
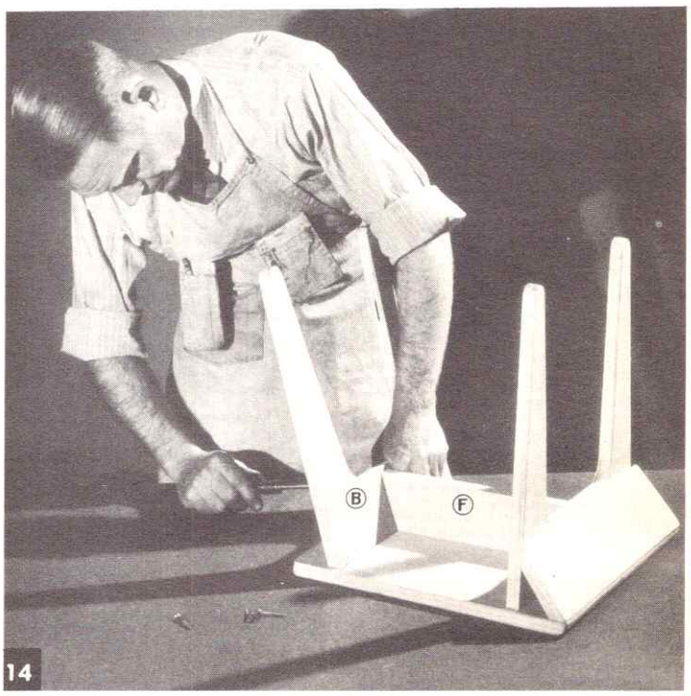


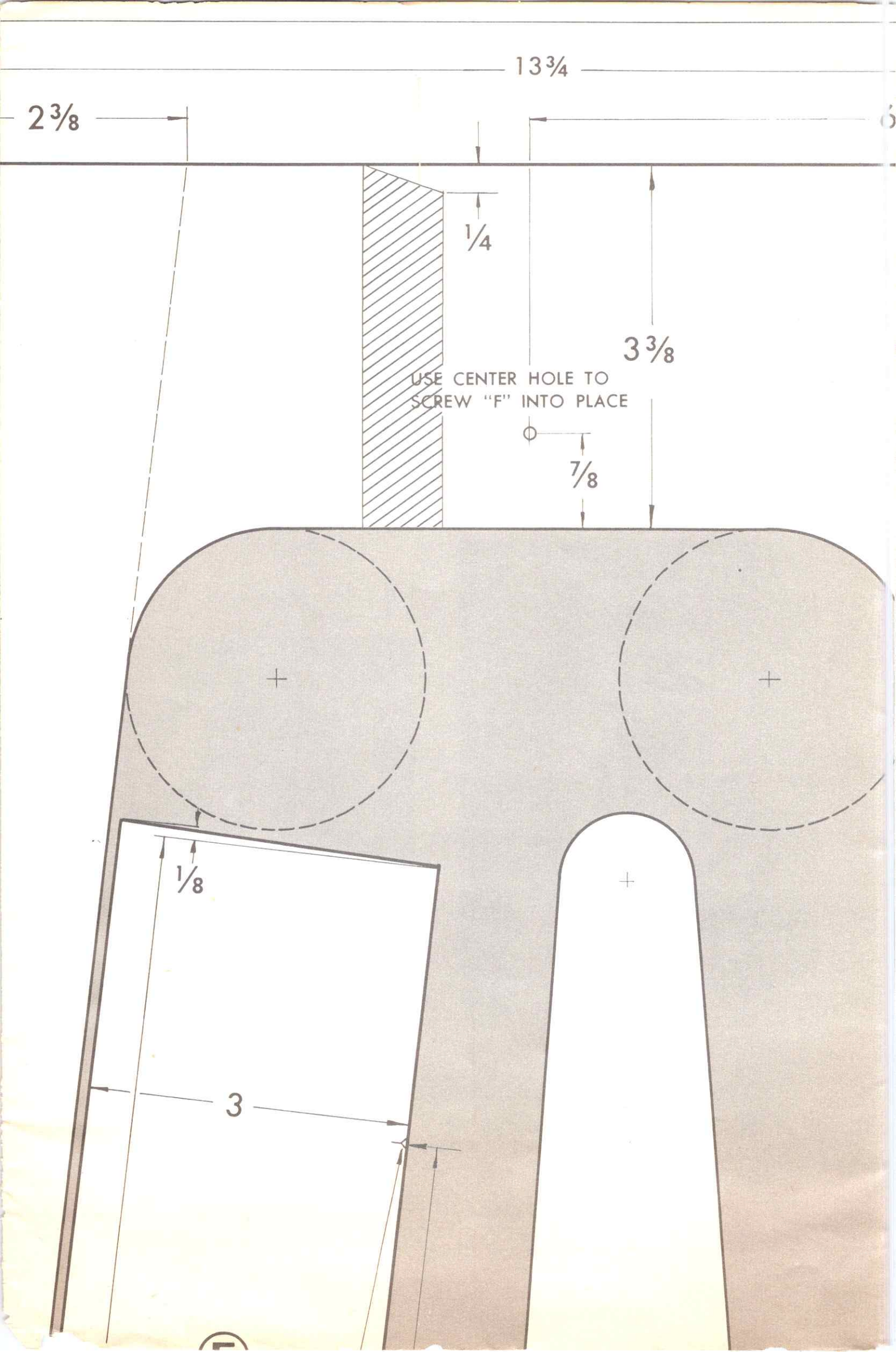
13

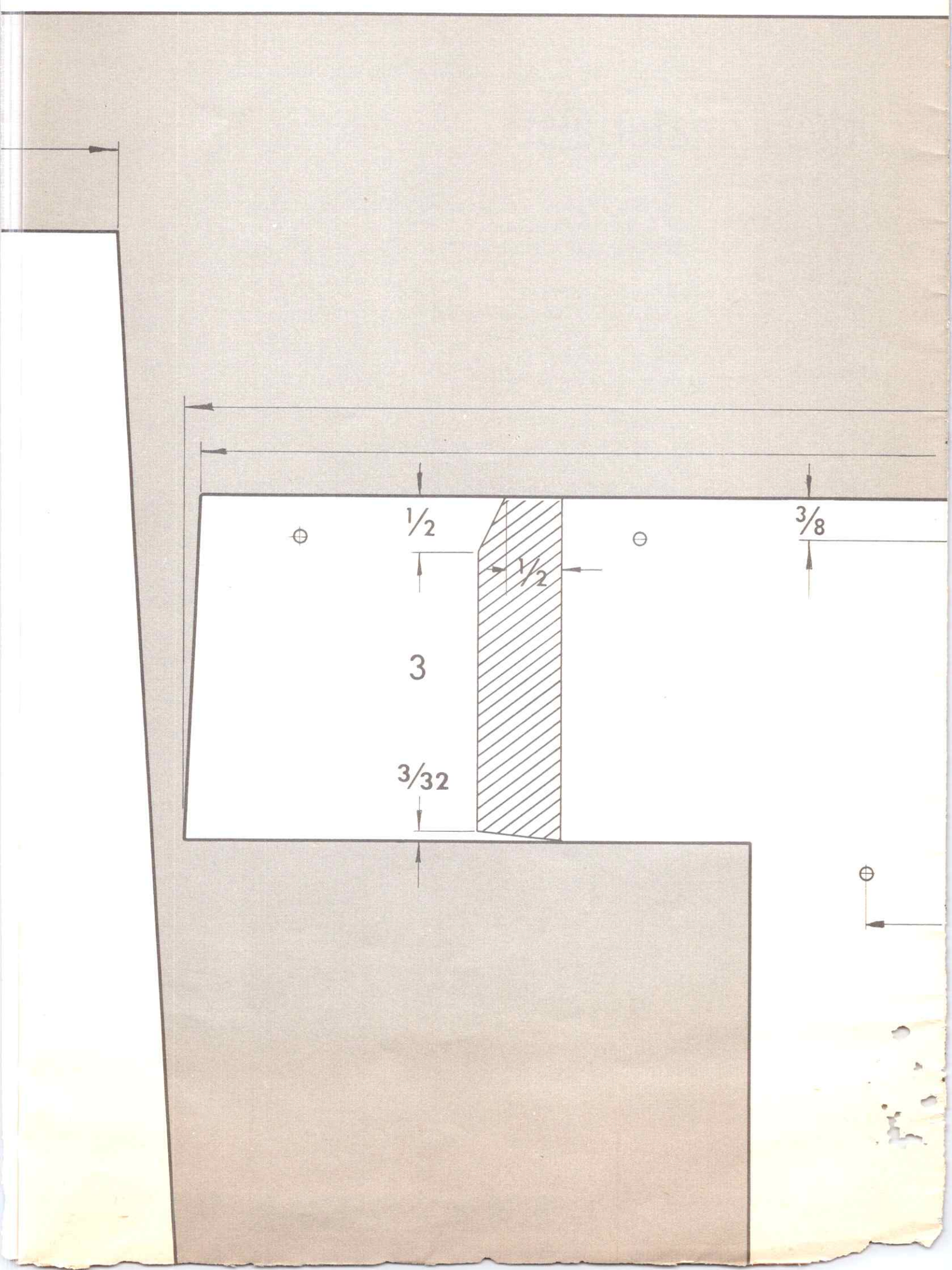
13. Screw D to front legs, A.

14. Screw back legs, B, to center brace F.



14


13¾
2⅜
¼
3⅜
USE CENTER HOLE TO
SCREW "F" INTO PLACE
⅞
⅛
3


1/2
1/2
3/8
3
3/32

to build the Popular Home Chair you need only

these materials:

3/4" PLYWOOD (waterproof bonded preferred)
22" x 48" for 1 chair
48" x 84" for 4 chairs

UPHOLSTERY
Airfoam, rubberized curled hair, or cotton
back - 7 x 22 inches
seat - 16 x $18\frac{1}{2}$ inches
fabric - own choice

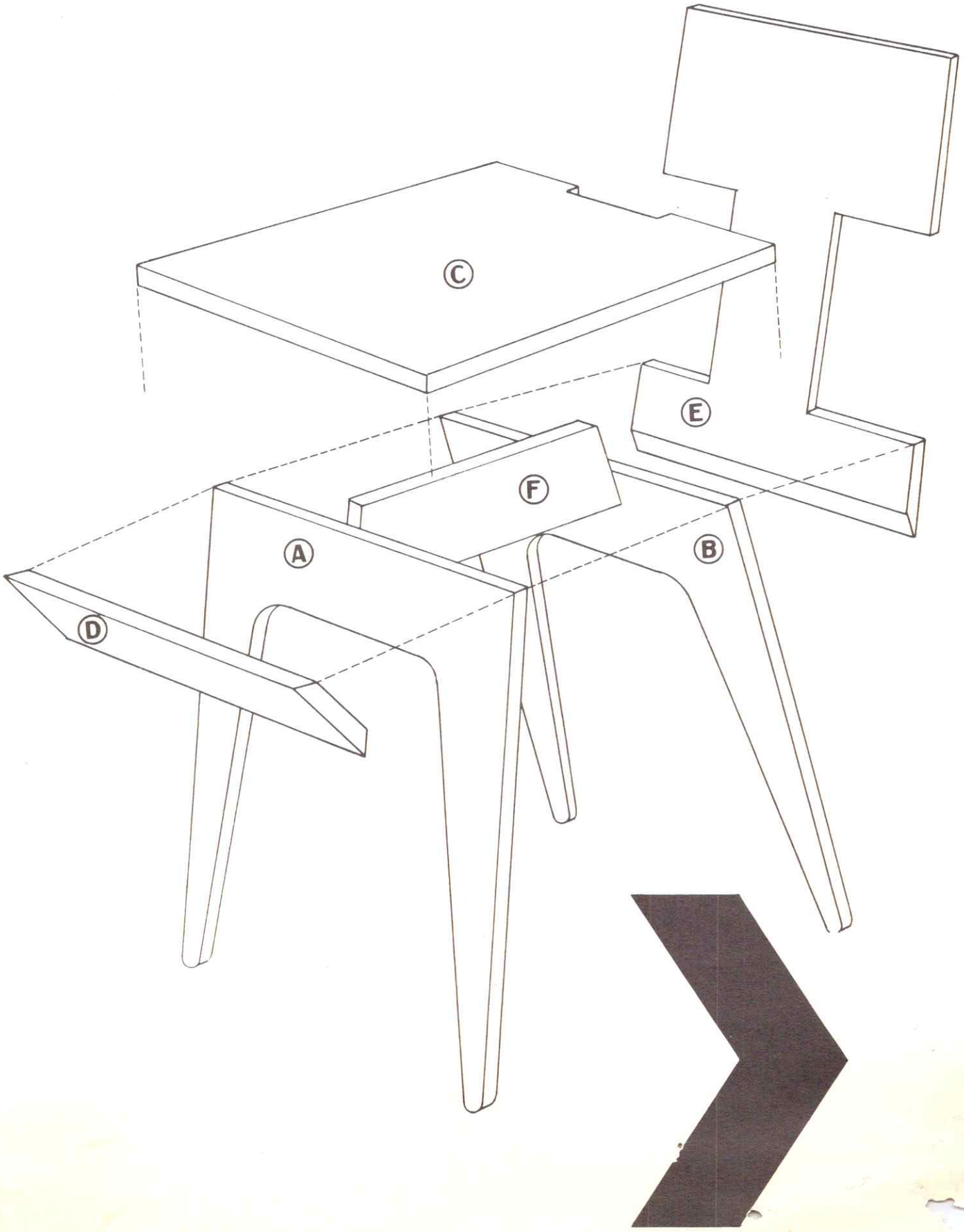
SCREWS
34 - $1\frac{1}{2}$ x No. 8 - flat wood screws
*It is recommended that all joints be glued, but it is not essential.

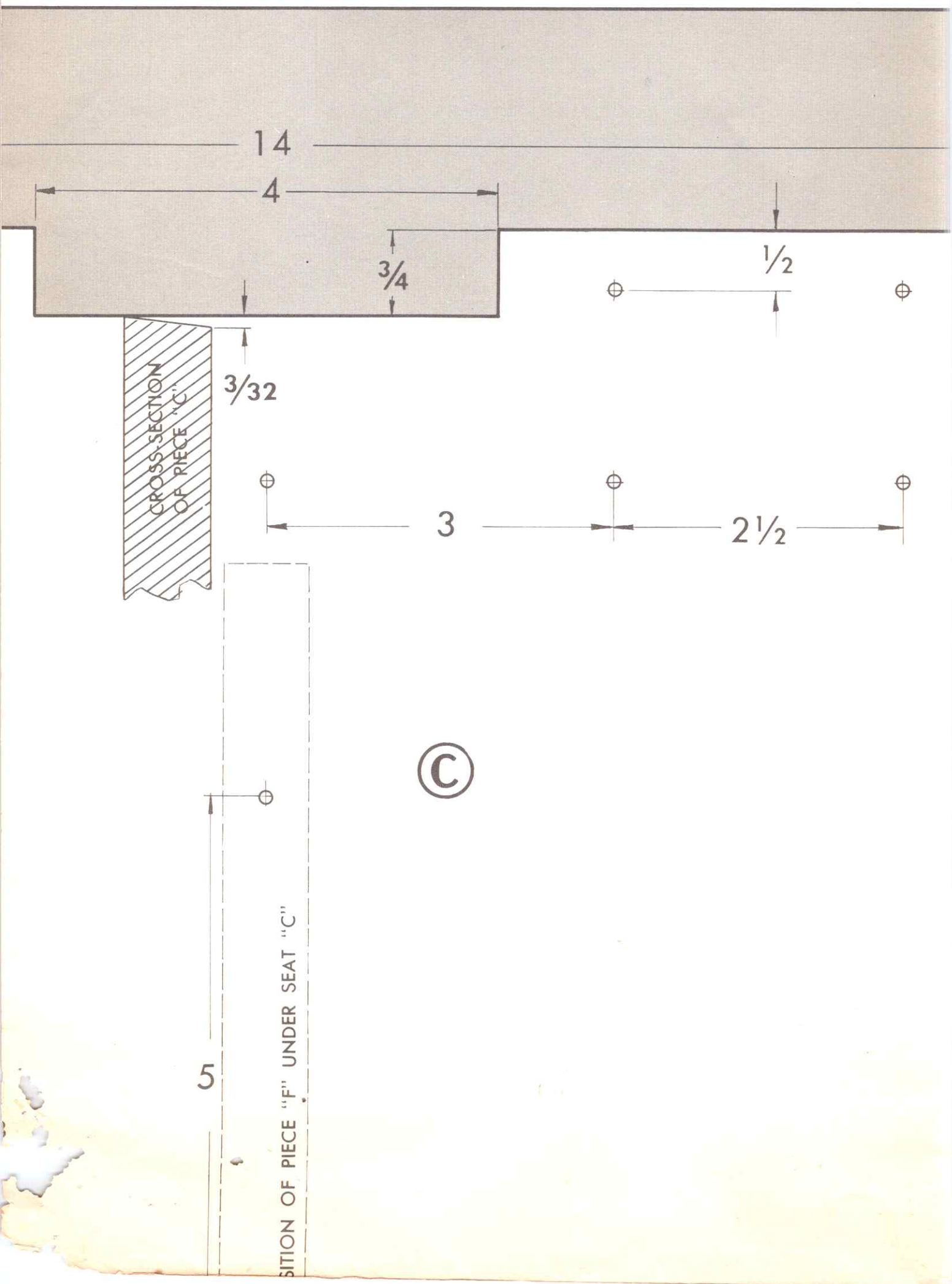
you need only

these household tools:

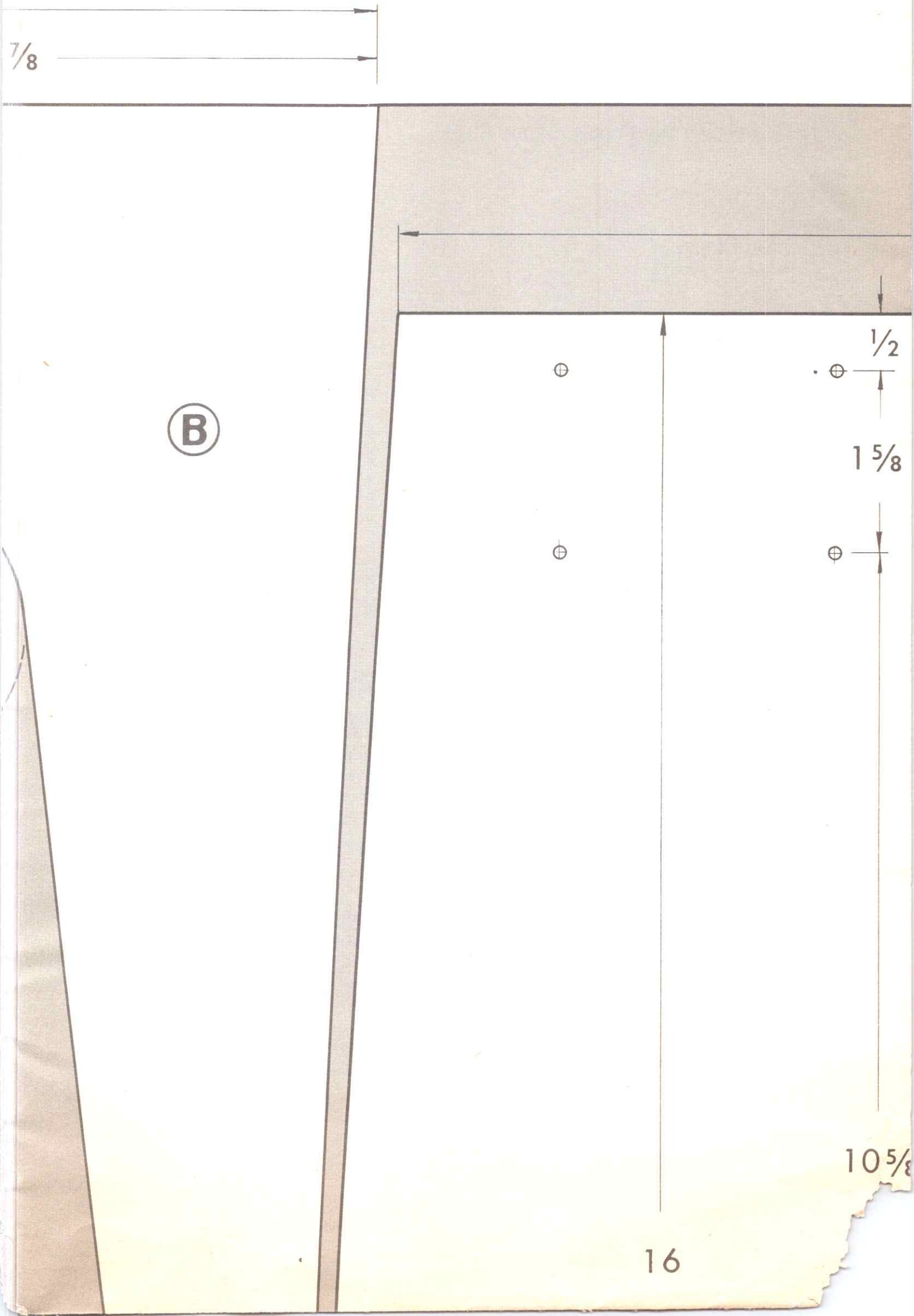
Hand saw
Keyhole saw or scroll saw
5/32 inch drill
Plane
Screwdriver
Hand square
Sandpaper
Expansion bit up to $2\frac{1}{2}$" diameter
(desirable, but not necessary)

...HERE IS HOW the pieces fit together




14
4
3/4
1/2
3/32
CROSS-SECTION OF PIECE "C"
3
2 1/2
5
SITION OF PIECE "F" UNDER SEAT "C"

©


7/8
B
1/2
1 5/8
10 5/8

Step by step instructions

for building the Popular Home Chair

Cutting

1. Four chairs can be made from a standard 4x8 foot sheet of 3/4 inch plywood. Before starting to work saw such a piece into quarters (four pieces, 2x4 feet), each of which will produce a chair.

2. Smooth this pattern sheet to minimize wrinkles, and lay it, other side up, on the 2x4 piece of plywood. Secure it at the corners with Scotch tape or thumbtacks with the lower edge of the pattern along the mill cut edge of the plywood.

3. Transfer the fullsize pattern printed on the other side of this sheet, to the plywood. This may be best done in one of three ways, the three being listed in order of preference: (A) Fasten only the top edge of this sheet securely to the plywood and trace the pattern on the wood with carbon paper, moving the carbon paper as necessary, but being certain that the pattern sheet is pulled tight after each such move. (B) Punch through the pattern into the wood with an ice pick or awl at the end of each straight line, and draw lines on the wood between such punch marks after the pattern has been removed. (C) Cut around the outline of each piece of this paper pattern with scissors and trace on the plywood around the edges of each pattern piece so cut. Be sure they are laid on the plywood in the exact placement shown on this pattern. In any of the three methods, "drill holes" for screws should be punched through the pattern with an awl or ice pick, while the pattern is fastened to the plywood.

4. Reduce size of working pieces by cutting between part B and part C.

5. Drill four $2\frac{1}{2}$ inch diameter holes for inside radius on legs with expansion bit. If not available, drill smaller hole and use keyhole or scroll saw to achieve the $2\frac{1}{2}$ inch circle.

6. Saw out all pieces.

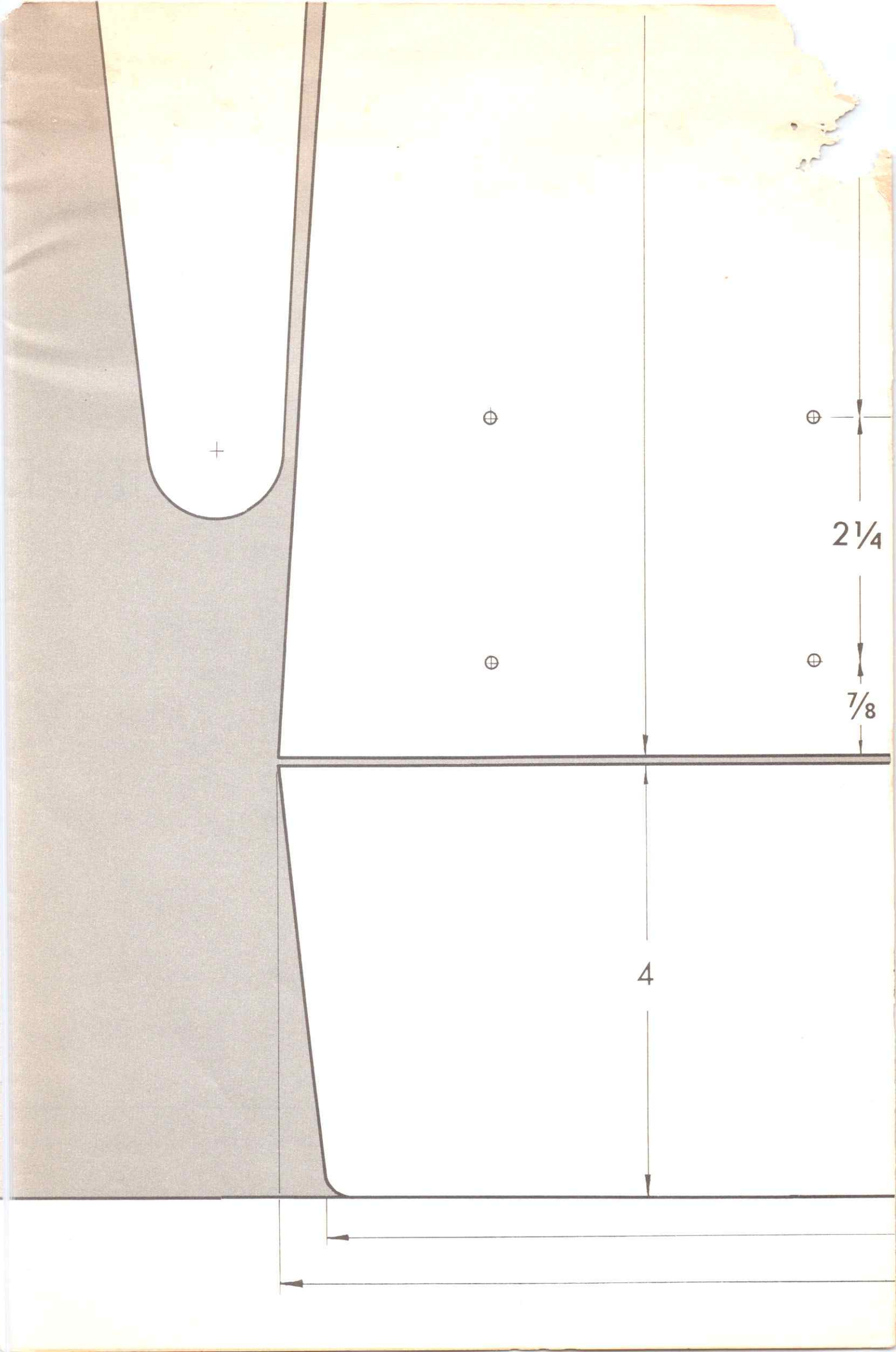
7. Take measurements and mark accurate edge bevels on pieces B, C, D and E as shown on shaded cross section of these pieces.

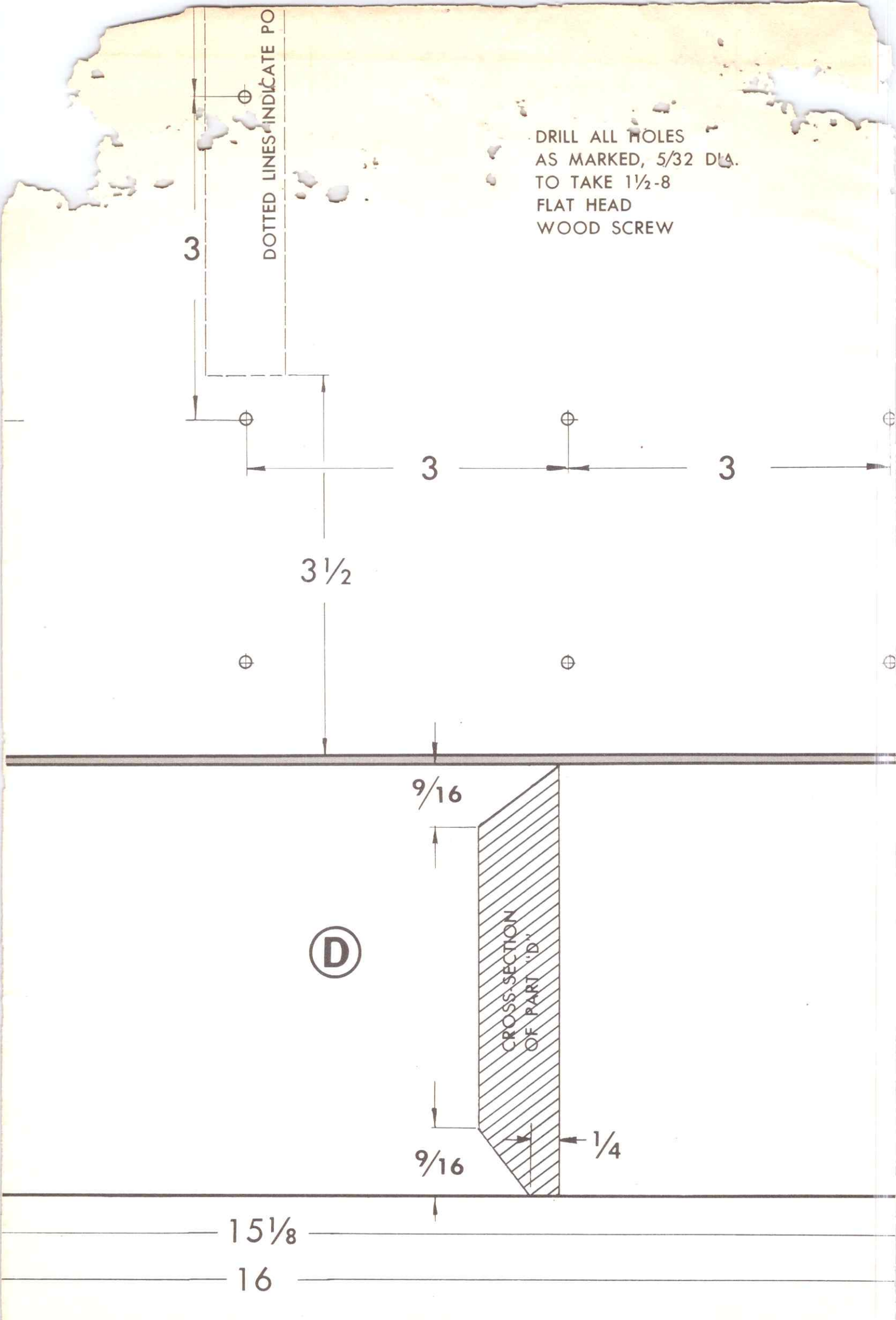
8. Saw or rabbet or plane these bevels as marked.

9. Sand faces and sides of all pieces.

Cut along these lines to fold around chair back support, but do not remove fabric.
Fold under padding here
CENTER LINE

PATTERN FO


2 1/4
7/8
4


DOTTED LINES INDICATE PO
DRILL ALL HOLES
AS MARKED, 5/32 DIA.
TO TAKE 1½-8
FLAT HEAD
WOOD SCREW
3
3
3
3½
9/16
D
CROSS-SECTION
OF PART "D"
1/4
9/16
15⅛
16

Any way you look at it...

We enjoy being your local representative of POPULAR HOME magazine, and consider it a privilege to be able to make these plans for POPULAR HOME's Everywhere Chair available to you with our compliments, and hope that you will enjoy making this chair in your own workshop.

Please consider our offices your headquarters for information on building and remodeling and repairing and improving your home. We stand ready to share our experience in these fields with you at any time.

Fold under here

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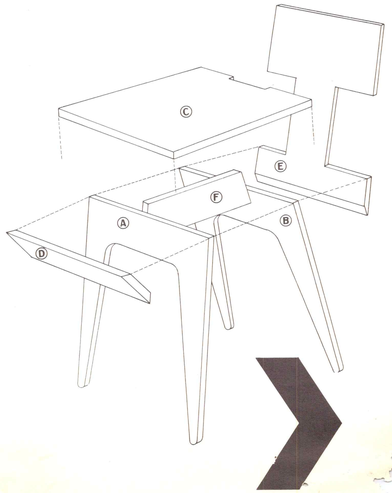

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7. Take measurements and mark accurate edge bevels on pieces B, C, D and E as shown on shaded cross section of these pieces.

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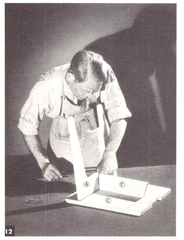
9. Sand faces and sides of all pieces.

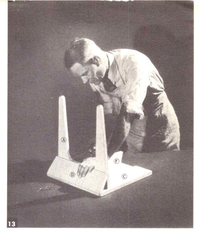
Assembly

10. Place part C over shorter edge of part F, and screw into place. Position of F is shown in dotted line on pattern of part C.

11. Screw F into position under seat C.

12. Screw A (front legs) to center brace F. (Note brads tacked into C as guide to leg placement.)





13. Screw D to front legs, A.

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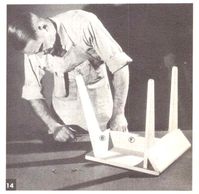

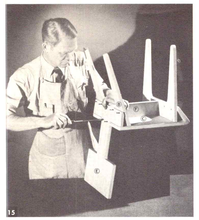

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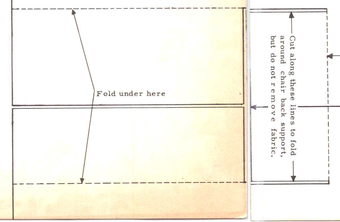

PATTERN FOR HALF OF SEAT FABRIC

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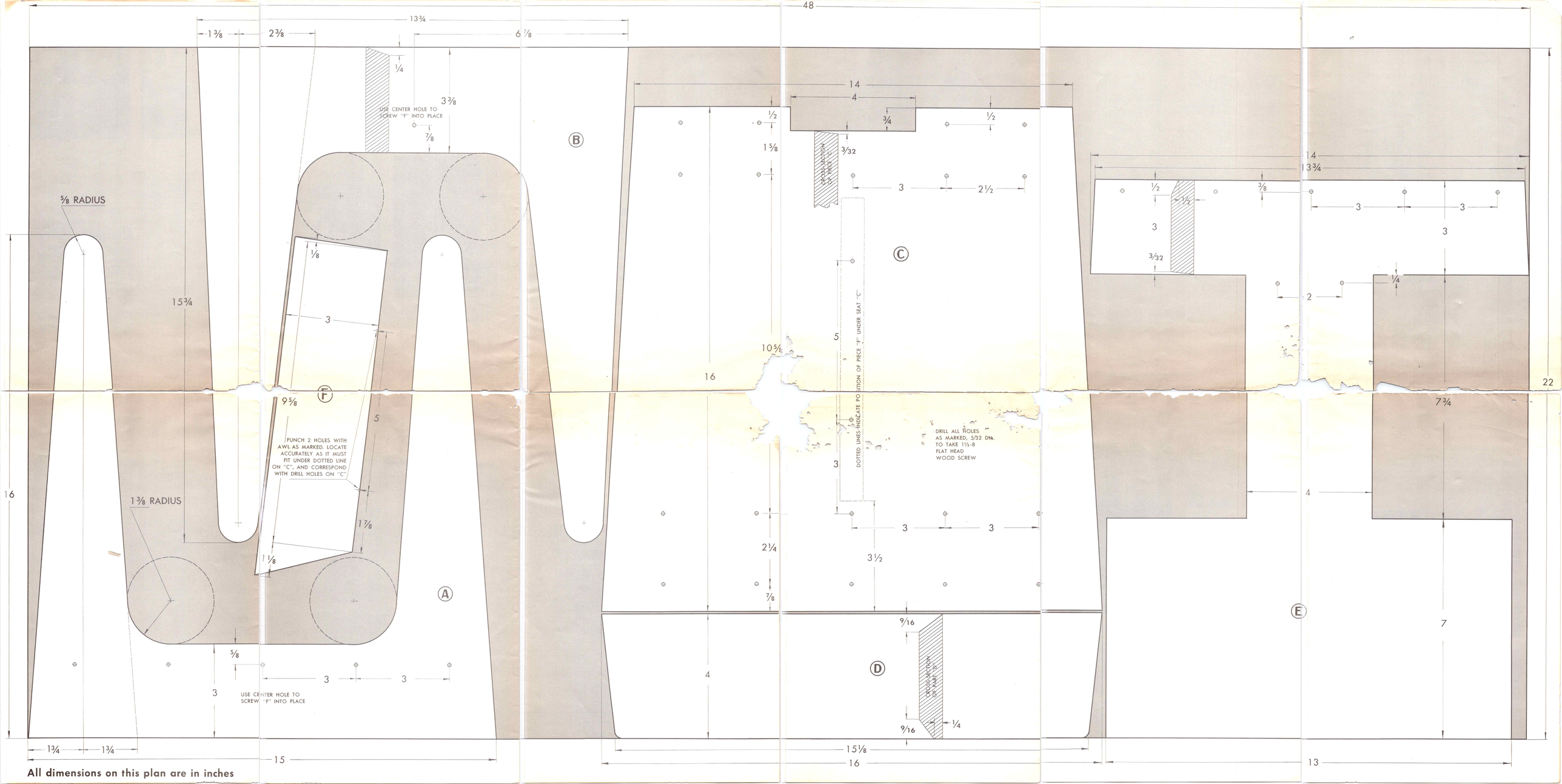
United States Gypsum Co.
300 W. Adams Street
Chicago 6, Ill.



All dimensions on this plan are in inches